

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

S-E-C-R-E-T

COUNTRY Hungary/Soviet Union REPORT [REDACTED]

SUBJECT Cartography, in Hungary and the Soviet Union DATE DISTR. 1 December 1955

DATE OF INFO. [REDACTED] NO. OF PAGES 2
This is UNEVALUATED
REQUIREMENT RD

PLACE ACQUIRED REFERENCES

DATE ACQUIRED [REDACTED]

25X1

25X1

25X1

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

25X1

Hungary

Cartography, Survey and Gravimetry

- Four pre-war types of Hungarian 1:25,000 map were shown [REDACTED], who recognized each of them, and indicated which of the four served as the basis for the 1:25,000 geological mapping of the country. This geological mapping at 1:25,000 has been completed for the whole country. The 1:25,000 topographical maps were no longer produced. The current military large-scale map was a 1:50,000 series. This map, [REDACTED] did not resemble in appearance the specimens of former Hungarian 1:50,000 (of 1940-42 vintage) maps shown¹, was rather similar in style to one of the types of 1:25,000 map shown, a three-color version with woods in green and contours brown.
- [REDACTED]
- [REDACTED] any 1:25,000 map series being produced or planned to replace the older series on this scale, and emphasized that the new 1:50,000 series was now considered the basic topographical map of the country. [REDACTED] the 1:75,000 map series was now completely out of date and that the scale had been abandoned.
- [REDACTED] the 1:200,000 map, of which a specimen of 1940 date [REDACTED] was no longer used and has been replaced by 1:250,000. which is already about 10 years old. [REDACTED] (Sheet-lines, sheet numbering) except [REDACTED] it was produced from the 1:75,000 series, and was contoured.
- [REDACTED]

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

S-E-C-R-E-T

25X1

STATE	X	ARMY	X	NAVY	X	AIR	X	FBI		ABC									
-------	---	------	---	------	---	-----	---	-----	--	-----	--	--	--	--	--	--	--	--	--

(Note: Washington distribution indicated by "X"; Field distribution by "#")

S-E-C-R-E-T

- 2 -

- [redacted] 25X1
- For mining surveying local systems of coordinates were set up for each mine; these were based on three nearby trig. stations, the coordinates of which in the national system were obtained from the Military Geographical Institute. 25X1
6. [redacted] 25X1
7. [redacted] some aircraft had been given by the Soviet Union to fly air photography and that thus the Military Geographical Institute was now able to use air survey in the production of its new mapping. It was hoped that it would be arranged for aerial photography to be flown by [redacted] aircraft for the use of the Geological Institute. Before the war geological mapping from air photographs with a field check had been carried out [redacted] 25X1
8. [redacted] there was in existence a completed systematic gravity survey network. The whole country, except the mountain areas, was covered by a network of stations at an interval of 4 or 5 km. at which torsion balance measurements have been carried out. Further, in the areas in the W, NE, and SE Hungary, gravimeter surveys had been carried out with stations at 1 and 2 km. interval. 25X1
9. At present further surveys were in progress to make more dense the general network of stations surveyed by the torsion balance method and also to establish a network of gravimeter stations in the mountainous areas. 25X1
10. The responsibility for these surveys rested with the Geophysical Institute (Magyar Allami "Eötvös Lorand" Geofizikai Intezet), which also carried out detailed gravimetric surveys of oilfield areas. 25X1
11. [redacted] 25X1

Organizations

12. [redacted] the Geological Institute (Magyar Allami Földtani Intezet) had a small group of surveyors, who were employed on the large scale (e.g. 1:5,000) topographical mapping of small areas for the special needs of the Institute's geological work. Two copies of the maps so made were prepared, one of which was lodged with the Military Geographical Institute (Magyar Allami Katonai Terkepszeti Intezet) and one with Geological Institute itself. The coordinates for control points for these small areas of special surveys were obtained from the Military Geographical Institute. 25X1
13. The Military Geographical Institute was responsible for the general topographical mapping of the country: thus, it produced the 1:50,000 and 1:250,000 series mentioned above. It did not maintain the older mapping including, for instance, the 1:25,000 series. 25X1
14. [redacted] it was planned to set up a civil institute which would maintain record copies of the older mapping ([redacted] specifically the 1:25,000 series) and would produce copies of these older maps when they were required, e.g. for geological mapping. [redacted] this civil cartographic institute might have been set up by now. As an interim measure, however, there was a section of the Ministry of War which was fulfilling the functions of the proposed civil institute, in keeping records of the older maps and preparing copies of them on request. 25X1

Addresses of Institutes in Hungary:

15. Magyar Allami Katonai Terkepszeti Intezet
Budapest XIII ker. Vaci ut. [redacted] 25X1
- Magyar Allami Földtani Intezet
Budapest XIV ker. Vorosilov (formerly Stefania) ut 14.
- Magyar Allami "Eötvös Lorand" Geofizikai Intezet
Address as for 2. above.

S-E-C-R-E-T

25X1

S-E-C-R-E-T

25X1

- 3 -

The Soviet Union

16. [redacted] 25X1

25X1

17. [redacted] the coverage of mapping in the Soviet Union [redacted] 25X1

[redacted] there was a large area in NE Siberia in the region of the upper Kolyma and Indigirka Rivers which had still to be mapped and which was referred to as the "blank (white) area". [redacted] the rest of the

country had been mapped at the scale of 1:100,000, except for certain areas (e.g. Novaya Zemlya) where the cover was at 1:200,000. 25X1

18. [redacted] 25X1

[redacted] in general, methods of geophysical surveying were not well developed in Russia [redacted] this might be

attributed to the fact that before the war the Russians did not make any gravimetric instruments. At present, [redacted] there was no general systematic gravity survey network in Russia as there was in Hungary and that only

industrial and mining areas were covered. [redacted] there was a plan for a general overall survey, [redacted] in the last two years parties

were going to carry out gravity surveys in the following areas; Fergana, the area immediately E. of the Urals, the Lake Baikal area, Turkmenia and Central

Ukraine (near Kiev). (See para. 6 for reference to gravity measurements at sea.) 25X1

19. With reference to geological mapping, [redacted] 25X1

[redacted] geological mapping was being carried out in Azerbaydzhan at a scale of 1:200,000. 25X1

20. [redacted] oceanographic studies were well developed in Russia and 25X1

referred to the work of the Oceanographical Institute in Leningrad. In the Geological Institute in Moscow, [redacted] maps produced by this oceanographic

Institute and other agencies. Among these were maps of the Bering Sea, East 25X1

Siberian Sea and Sea of Okhotsk showing depths, bottom conditions, seismic and gravimetric observations. Others showed currents and sea temperature.

Most of these maps were completed about 1950. Some indicated that sea-bed

samples, depth, gravity, and seismic observations had been made at intervals

of 2 kms. The individual observations were apparently given a sequence number, and [redacted] some stations with numbers between 70,000 and 80,000 implying that

observations totalling at least this number had been made. [redacted] 25X1

25X1

21. [redacted]

1. [redacted] Comment: The two sheets of the 1:50,000 series mentioned above 25X1

have been examined. In fact they proved to be merely post-war (1949)

reprints of sheets of one of the series of which a specimen had been

shown [redacted] as mentioned above. This "new" series was in fact 25X1

completed before the end of the war (1944). [redacted] 25X1

S-E-C-R-E-T

25X1